

WHAT IS CLAIMED IS:

1. A device for sensing writing movement, comprising,  
an electronic module configured to be received within a  
5 writing instrument, comprising:

a ballistic generator that is configured to generate  
movement information resulting from writing movements;  
and

10 a transmitter that is configured to transmit the  
movement information to a remote computer.

2. The device of claim 1, wherein the ballistic  
generator comprises an accelerometer.

15 3. The device of claim 2, wherein the accelerometer is  
configured to generate writing instrument tilt information.

4. The device of claim 1, further comprising a motion  
sensor configured to power on the electronic module upon  
20 detecting movement of the electronic module.

5. The device of claim 1, wherein the electronic module  
is configured to fit within a cavity that is configured to  
receive an ink cartridge for the writing instrument.

6. The device of claim 5, wherein the writing instrument is a pen that is configured to receive two ink cartridges, and the electronic module is configured to be  
5 inserted in place of one of the cartridges.

7. The device of claim 6, wherein a first of the two cartridges is aligned to provide ink for a tip of the pen, and a second is positioned so that it abuts the first, and wherein  
10 the electronic module is configured to be positioned in the location of the second cartridge.

8. An electronic module, comprising,  
means for attaching the electronic module to a writing  
15 instrument;

a ballistic generator that is configured to generate movement information resulting from writing movements; and

a transmitter that is configured to transmit the movement information to a remote computer.

20 9. The electronic module of claim 8, wherein ballistic generator comprises an accelerometer.

10. The electronic module of claim 9, wherein the accelerometer is configured to generate writing instrument tilt information.

5 11. The electronic module of claim 8, further comprising a motion sensor configured to power on the electronic module upon detecting movement of the electronic module.

10 12. A device for sensing writing movement, comprising, an electronic module configured to be received within a cavity in the writing instrument that is configured to receive one of the cartridges, comprising:

15 a ballistic generator configured to generate movement information resulting from writing movements of the writing instrument.

13. The device of claim 12, further comprising a transmitter that is configured to transmit the movement information to a remote computer.

20 14. A writing instrument, comprising: an electronic module mounted within the writing instrument, comprising a ballistic generator that is

configured to generate movement information resulting from writing movements of the writing instrument.

15. The writing instrument of claim 14, wherein the  
5 writing instrument is a pen that is configured to receive two ink cartridges, and the electronic module is configured to be inserted in place of one of the cartridges.

16. The writing instrument of claim 15, wherein a first  
10 of the two cartridges is aligned to provide ink for a tip of the pen, and a second is positioned so that it abuts the first, and wherein the electronic module is positioned in the location of the second cartridge.

17. The writing instrument of claim 14, wherein the  
15 ballistic generator comprises an accelerometer.

18. The writing instrument of claim 17, wherein the  
accelerometer is configured to generate writing instrument  
20 tilt information.

19. The writing instrument of claim 14, wherein the  
electronic module further comprises a motion sensor configured

to power on the electronic module upon detecting movement of the writing instrument.

20. A method of providing electronic movement

5 information to a client application, comprising:

generating, through an electronic module added to a writing instrument, movement information as a result of movement of the writing instrument;

10 providing the electronic movement information to a computer that is remote of the writing instrument;

filtering the electronic movement information to form filtered data; and

providing the filtered data to a client application.

15 21. The method of claim 20, further comprising:

providing calibration information to the computer prior to generating the movement information; and

altering the filtered data in accordance with the calibration information.

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